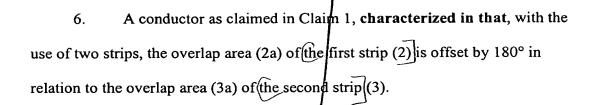
What is Claimed is

- 1. An insulated electrical conductor with preserved functionality in case of fire, comprising a metallic conductor, a first glass and/or mica containing layer applied to said conductor, and a second plastic layer sheathing the first layer, characterized in that the first layer is made of at least two longitudinally introduced strips (2, 3) of glass and/or mica, which are applied to the conductor, wherein the width of said strips (2, 3) is selected such that the strips (2, 3) overlap each other by at least 50%.
- 2. A conductor as claimed in Claim 1, characterized in that at least one strip or thread (4, 5) of a high-tensile, flame resistant material is helically applied to the first layer.
- 3. A conductor as claimed in Claim 1, characterized in that the strips are made of a glass filament strip with mica particles, which are bonded to the glass filament strip with a silicon resin. 3,35-53
- 4. A conductor as claimed in Claim 1, characterized in that two strips or threads (4, 5) are wound onto the first layer (2, 3) with an opposite direction of lay.
- 5. A conductor as claimed in Claim 2, characterized in that the thread (4, 5) of high-tensile flame resistant material is a glass filament or carbon fiber thread.



- 7. A conductor as claimed in Claim 1, characterized in that the strips (2, 3) of the first layer are glass/mica strips, and the mica layer faces the conductor (1).
- 8. An electrical cable with preserved functionality in case of fire, characterized in that said cable comprises at least two stranded conductors as claimed Claim 1.
- 9. A process for producing an insulated electrical conductor with preserved functionality in case of fire, in which an electrical conductor is provided with a first glass and/or mica containing layer, and a second plastic layer is subsequently applied to said first layer, characterized by the following steps:
 - a) applying a first glass and/or mica containing longitudinally introduced strip to the conductor with an overlap of at least 50%,
 - b) applying a second glass and/or mica containing longitudinally introduced strip to the first strip, again with an overlap of more than 50%, wherein the overlap of the second strip is offset by 180° in relation to the overlap of the first strip,
 - c) in tandem extrusion of a plastic layer onto the conductor provided with the first layer.

- 10, A process as claimed in Claim 9, characterized by the step of winding at least one strip or thread onto the second strip prior to step c).
- 11. A process as claimed in Claim, characterized in that the longitudinal formation of the strips is effected within a tubular guide.
- 12. A process as claimed in Claim 10, characterized in that two glass filament or carbon fiber threads are helically wound onto the second strip with an opposite direction of lay.
- 13. A process as claimed in Claim 9, **characterized in that** several conductors are simultaneously produced and are subsequently provided with a common plastic sheath.
- 14. A process as claimed in Claim 12, characterized in that the conductors are stranded together and a plastic outer sheath is subsequently extruded onto the stranded composite.

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